07-11-05

2633 ggw

Docket No.: 55340-RCE (70840)

(PATENT)

### I THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Takuma Hiramatsu

Application No.: 09/674,068

Confirmation No.: 9269

Filed: April 6, 2001

Art Unit: 2633

For:

SPACE-DIVISION MULTIPLEX FULL

DUPLEX LOCAL AREA NETWORK

Examiner: Bello, Agustin

#### **INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

#### **CERTIFICATE OF EXPRESS MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee' service under 37 CFR 1.10 (Express Mail Label No: EV 654382159 US), and is addressed to Mail Stop: AMENDMENT, Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 on July 8, 2005.

Kathryn A. Grindrod

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references/documents listed on the attached PTO/SB/08a/b. It is respectfully requested that these references/documents be expressly considered during the prosecution of this application, and that these references/documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

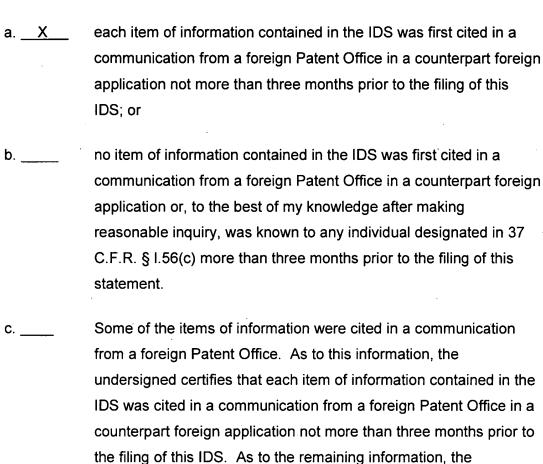
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|-----|-------------|---|--|--|--|--|
|     | a. <u>X</u> | Submitted herewith is a legible copy of (i) each U.S and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.  |  |  |  |  |
|     | b           | This application relies under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No, filed on The references listed on the attached Form PTO/SB08a/b were submitted to, and/or cited by, the Office in the prior application(s) and, therefore, are not required to be provided in this application. |  |  |  |  |
| 11. |             | XPLANATION OF THE RELEVANCE k at least one box)   |  |  |  |  |
|     | a. <u>X</u> | Except as may be indicated below in (b), all of the patents, publications or other information submitted herewith are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).  |  |  |  |  |
|     | b           | A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:  |  |  |  |  |
|     | c           | The following additional information is provided for the Examiner's consideration:  |  |  |  |  |

## **FEES**

| III. |   | THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b) (check one box)  |  |  |  |  |
|------|---|--|--|--|--|--|
|      | a   | within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1). No fee or certification is required.  |  |  |  |  |
|      | b   | within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2). No fee or certification is required.   |  |  |  |  |
|      | C   | before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § I.17(p). |  |  |  |  |
| IV.  |   | S BEING FILED UNDER 37 C.F.R. § 1.97(c):<br>one box)   |  |  |  |  |
|      | before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)). |  |  |  |  |  |
|      | a   | No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. §1.17(p).  |  |  |  |  |
|      |   | OR   |  |  |  |  |
|      | bX  | See the certification below. No fee is required.   |  |  |  |  |

# V. STATEMENT UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby states that



undersigned hereby certifies that no item of this remaining

months prior to the filing of this statement.

information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three

Please charge Deposit Account No. 04-1105 in the amount of \$180.00 for the above-indicated fee. A triplicate copy of this paper is attached.

X No fee is required.

X Applicant believes that additional fees beyond those submitted herewith are not required in connection with the consideration of this submission. However, if for any reason a further fee is required, a fee paid is inadequate or a credit is owed for any excess fee paid, you are hereby authorized and requested to charge and/or credit Deposit Account No. 04-1105, as necessary, for the correct payment of all fees which may be due in connection with the filing and consideration of this communication.

If the Examiner has any questions concerning this Information Disclosure Statement, he/she is requested to contact the undersigned. Further, if it is determined that this Information Disclosure Statement has been filed under the wrong rule, the United States Patent and Trademark Office is requested to consider this Information Disclosure Statement under the proper rule, with a petition if necessary, and to charge the appropriate fee to Deposit Account No. **04-1105**.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1105, under Order No. 55340-RCE (70840). A duplicate copy of this paper is enclosed.

Dated: July 8, 2005

Respectfully submitted,

By named A. Tucker

David A. Tucker

Registration No.: 27,840 EDWARDS & ANGELL, LLP

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Attorney for Applicant

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Application No. (if known): 09/674,068

Attorney Docket No.: 55340-RCE (70840)

## **Certificate of Express Mailing Under 37 CFR 1.10**

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of

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| Complete if Known      |                        |  |  |
|------------------------|------------------------|--|--|
| Application Number     | 09/674,068-Conf. #9269 |  |  |
| Filing Date            | April 6, 2001          |  |  |
| First Named Inventor   | Takuma Hiramatsu       |  |  |
| Art Unit               | 2633                   |  |  |
| Examiner Name          | Bello, Agustin         |  |  |
| Attorney Docket Number | 55340-RCE (70840)      |  |  |

| U.S. PATENT DOCUMENTS |                          |  |                                |  |   |  |
|-----------------------|--------------------------|--|--------------------------------|--|---|--|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number  Number-Kind Code <sup>2</sup> ( if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |  |
|                       |                          |  |                                | •  |   |  |

|                       | FOREIGN PATENT DOCUMENTS |  |                                   |  |   |  |  |  |
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| Examiner<br>Initials* | Cite<br>No.              | Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear |  |  |  |
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|                      | NON PATENT LITERATURE DOCUMENTS |   |   |  |  |  |
|----------------------|---------------------------------|---|---|--|--|--|
| Examiner<br>Initials | Cite<br>No.1                    | manazine journal cerial symposium catalog etc.) date page(s) volume issue number(s) publisher city  |   |  |  |  |
|                      | CA                              | K. Iversen, et al. "Application of Algorithms for DOA Estimation and Beamforming to Infrared Photodiode Arrays", Acoustics, Speech and Signal Processing, 1997, 1997 IEEE International Conference on Munich, Germany, 21-24 April 1997, Los Alamitos, CA USA, IEEE Comput. Soc, US, Vol. 5, 21 April 1997 pp. 4053-4056.                                   | 1 |  |  |  |
|                      | СВ                              | A. P. Tang, et al., "Wireless Infrared Communication Links Using Multi-Beam Transmitters and Imaging Receivers", 1996 IEEE International Conference on Communications, Converging Technologies for Tomorrow"s Applications, Dallas, 23-27 June 1996, IEEE International Conference on Communication, New York, IEEE, US, Vol. 1, 23 June 1996, pp. 180-186. | 1 |  |  |  |
|                      | СС                              | D. P. Johnson, et al., "Free-Space Infrared Local Area Network (FIRLAN)", Optical Engineering, Soc. of Photo-Optical Instrumentation Engineers, Bellingham, US, Vol. 32, No. 9, 1 September 1993, pp. 2114-2117,  | 1 |  |  |  |

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| Examiner  | ate       |  |
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